

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518624

Luminaire Tested: **SQ4-BB-0U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518624  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

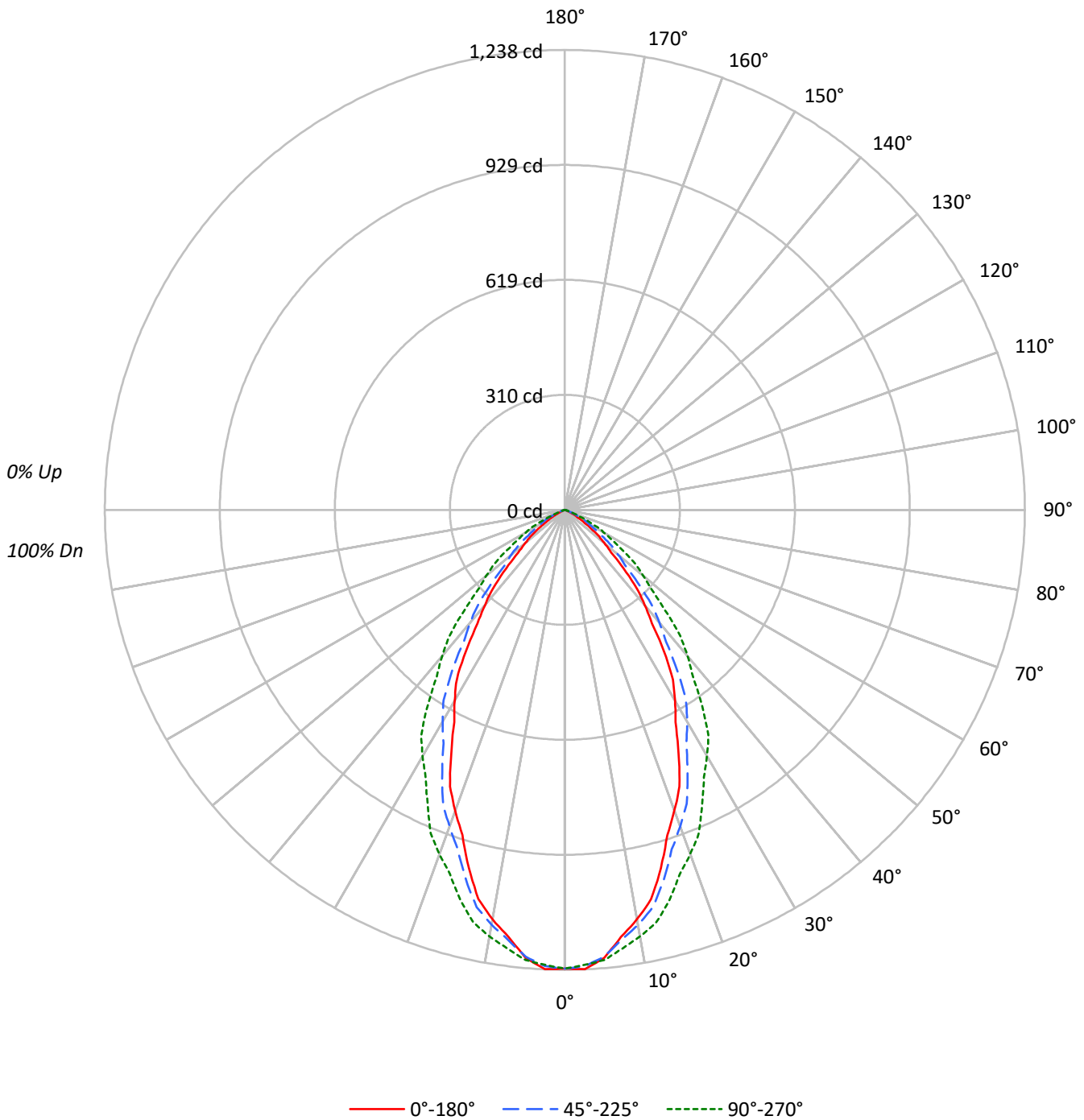
Lumens per Lamp: N/A  
Luminaire Lumens: 1473.1 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10926
15°	9535	9837	10386
20°	8464	8904	9684
25°	7371	7955	8897
30°	6313	7008	8153
35°	5235	5948	7253
40°	4023	4756	6181
45°	2907	3601	4974
50°	1981	2684	3944
55°	1288	1942	3066
60°	738	1367	2216
65°	196	834	1122
70°	97	259	321
75°	43	21	0
80°	32	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	7.7
10°-20°	288.2	19.6
20°-30°	360.8	24.5
30°-40°	333.3	22.6
40°-50°	223.9	15.2
50°-60°	115.7	7.9
60°-70°	36.2	2.5
70°-80°	2.3	0.2
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	761.7	51.7
0°-40°	1094.9	74.3
0°-60°	1434.5	97.4
0°-90°	1473.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1210	1198	1207	1212	1216	112
15°	998	995	1030	1064	1087	278
25°	724	730	781	835	874	332
35°	465	476	528	590	644	288
45°	223	236	276	330	381	175
55°	80	94	121	155	191	75
65°	9	17	38	46	51	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1237.7	1226.0	1229.1	1229.0	1225.8
5°	1210.4	1198.1	1207.4	1211.7	1216.3
7.5°	1159.2	1149.6	1167.5	1180.8	1190.5
10°	1119.6	1111.4	1134.5	1152.7	1166.2
12.5°	1073.7	1067.4	1095.3	1120.3	1137.5
15°	998.3	994.8	1029.9	1064.5	1087.3
17.5°	917.5	917.4	957.5	1000.5	1027.9
20°	862.1	863.8	906.9	954.2	986.3
22.5°	806.6	810.7	856.7	906.0	942.8
25°	724.1	729.9	781.4	834.9	874.0
27.5°	644.7	653.3	707.5	763.0	810.7
30°	592.6	602.6	657.8	716.2	765.3
32.5°	541.5	553.3	607.1	668.9	718.9
35°	464.8	476.5	528.1	590.3	644.0
37.5°	385.6	397.0	447.5	508.6	566.7
40°	334.0	346.8	394.9	454.2	513.2
42.5°	287.1	300.0	345.2	403.4	459.2
45°	222.8	236.3	276.0	329.7	381.2
47.5°	169.5	184.1	219.0	267.6	314.5
50°	138.0	152.6	187.0	229.8	274.8
52.5°	112.7	126.8	157.8	198.2	239.4
55°	80.1	93.5	120.7	154.9	190.6
57.5°	55.3	66.9	91.3	119.9	147.8
60°	40.0	51.1	74.1	97.3	120.1
62.5°	26.6	36.8	59.3	77.1	92.4
65°	9.0	17.1	38.2	46.1	51.4
67.5°	4.5	5.5	20.1	21.2	22.9
70°	3.6	3.6	9.6	10.2	11.9
72.5°	2.6	2.6	3.8	4.9	5.3
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)